



THERESA NUZZO SCHOOL MARSA
HALF YEARLY EXAMINATIONS 2020-2021

MATHEMATICS

Grade 6

Name: _____ **Register No** _____

Class _____

Mental Paper Time: 20 minutes

Mark

Written Paper Time 1hour 30 minutes

Mark

Total Mark

MATHEMATICS Written Paper Time: 1 hr 30min GRADE 6

1. Work Out:

a) $658 + 42$	b) $7000 - 2547 =$
c) $1525 \div 5 =$	d) $75 \times 4 =$

(4 marks)

2a. Write in the missing numbers.

i) $32.62 \div 10 =$

ii) $37.6 \times 100 =$

iii) $\times 10 = 45.6$

d. Work out: **$8.6 - 3.75$**

(4 marks)

3a. **Two** of these sentences **could be true**.

Tick (✓) the **two** sentences that could be true.

Adam's pencil is **12 centimetres** long.

Amy is **11 metres** tall.

Jake's glass holds **250 millilitres** of milk.

Kate's baby weighs **13 kilograms**.

3b.



A bottle holds **1 litre** of lemonade.

Rachel fills **5 glasses** with lemonade.

She puts **150 millilitres** in each glass.

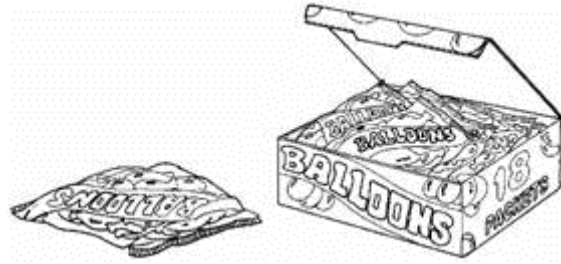
How much lemonade is **left** in the bottle?

_____ litres

(4 marks)

4. There are **5 balloons** in a **packet**.

There are **18 packets** in a **box**.



a. How many **balloons** are there **altogether** in a **box**?

_____ balloons

b. There are **5 balloons** in a **packet**.

Janet needs **65 balloons**.

How many **packets** does she need?



_____ packets

c. Each **packet** of balloons costs **20c**. How much does need **to pay**?

€ _____

d. How much **change** does she get from a **€5 note**?

€ _____

(4 marks)

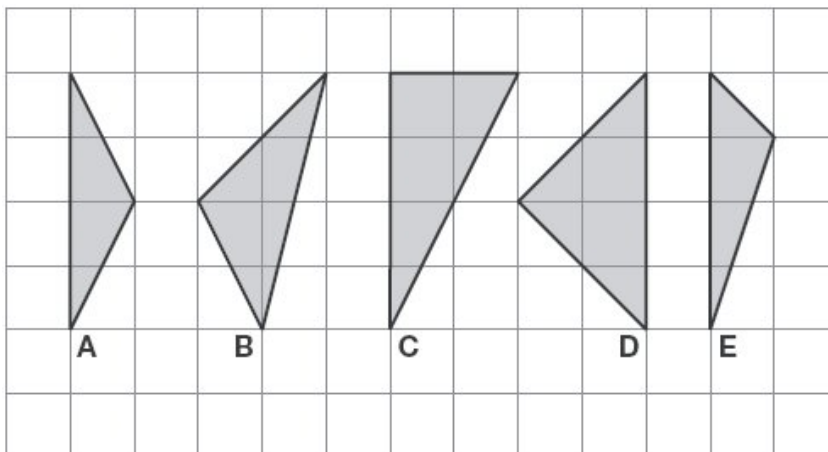
5. Five children each write a multiplication. Write the **name of the child** whose multiplication matches the following statements.

Julia 100×42	Sue 4.9×99	Elena 50×100	Maria 12×30	Rebecca 100×700
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	Name of child
i) 24×15 gives the same answer to my multiplication.	
ii) 500 is an estimation to my multiplication.	
iii) My multiplication gives a 5-digit answer.	
iv) When rounded to the nearest 1000, my answer is 4000	
v) My answer is exactly 5000	

(5 marks)

6. Here are five shaded triangles on a square grid.



a. Write the letters of the **two isosceles** triangles. _____ and _____.

b. Write the letter of the **two triangles** that have a **right angle**. _____ and _____.

c. An _____ triangle has **3 equal sides** and **3 equal angles**.

(5 marks)

7. Dexter has written a set of clues to describe a number.

What is the number?

- It has **5 tens**.
- It has **one more thousand** than it does **tens**.
- It has **6 digits**.
- It **starts** with a **9**.
- The **unit digit** is **half the thousand digit**
- The **rest of the digits** are **zeros**.

The number is

b. Fill in the blanks:

$$104,039 = 100,000 + \boxed{} + \boxed{} + \boxed{}$$

c. What is the **value** of the **underlined** digits?

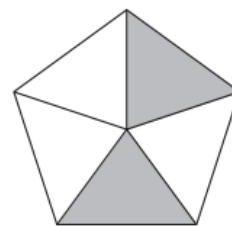
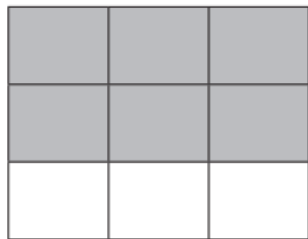
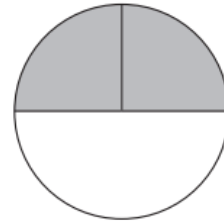
i) $2.\underline{9}5 = \boxed{}$

ii) $3.\underline{7}3 = \boxed{}$

iii) $\underline{1}95,040 = \boxed{}$

(5 marks)

8a. Tick the shapes that show $\frac{2}{3}$ shaded.



b. Complete the boxes to make the fractions equivalent.

$$\frac{3}{4} = \frac{\square}{12} = \frac{36}{\square}$$

c. $\frac{2}{3}$ of a mystery number is $\frac{1}{2}$ of 60. What is the number?

Mystery number is _____

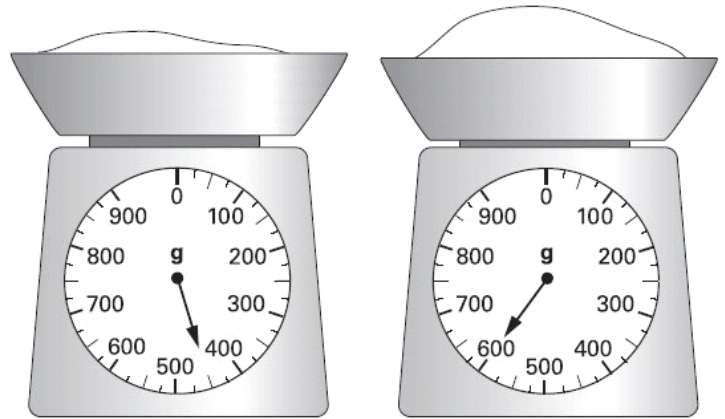
(5 marks)

9a. Emily is making a cake.

She puts flour on the scales.

She then adds sugar to the flour.

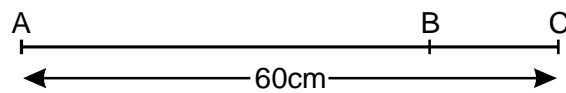
How much sugar does she add?



_____ grams

b. The distance from A to B is three times as far as from B to C.

The distance from A to C is 60 centimetres.



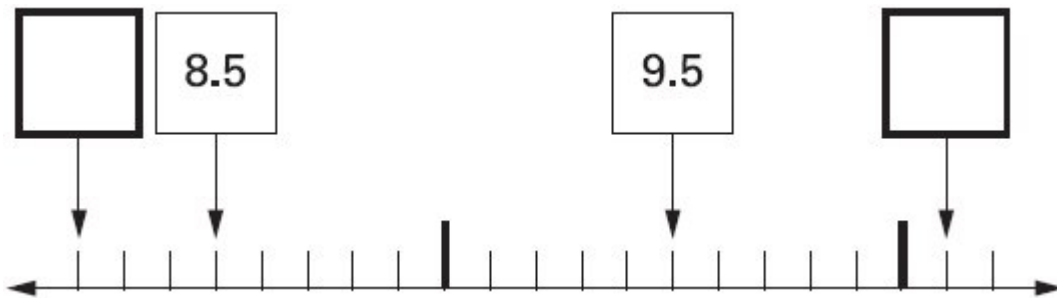
Not drawn to scale

Calculate the distance from A to B.

AB = _____ cm
(5 marks)

10a. Here is part of a number line.

Write in the numbers missing from the **two** empty boxes.



b. Write these numbers in order of size, starting with the smallest.

3.01 13.0 0.31 1.30 3.1

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smallest

c. Circle **two** numbers which **add** to make **0.12**

0.1 0.5 0.05 0.7 0.07 0.2

_____ and _____

(5 marks)

11. Here are four digit cards.

7

5

2

1

a. Choose **two cards each time** to make the following **two-digit numbers**. *Use the card only once in each case.*

i) an even number

5 2

ii) a multiple of 9

iii) a square number

iv) a factor of 96



b. Now use all cards to make:

i) the **smallest possible odd number** which is **larger than 5000** but **less than 7000**.

ii) the **largest multiple of 5**

(5 marks)

12. Karl buys **80 flowers**.

$\frac{3}{5}$ of them are **yellow**.

a) How many **yellow flowers** does he buy?



_____yellow flowers

b) **8** of the flowers are **red**. The rest are **pink**. What **fraction** of the flowers are **pink**?

c) The **yellow flowers** cost **70c** each. The **red flowers** cost **€1.50** each. The **pink flowers** cost **50 c** each. How much does Karl spend on flowers?

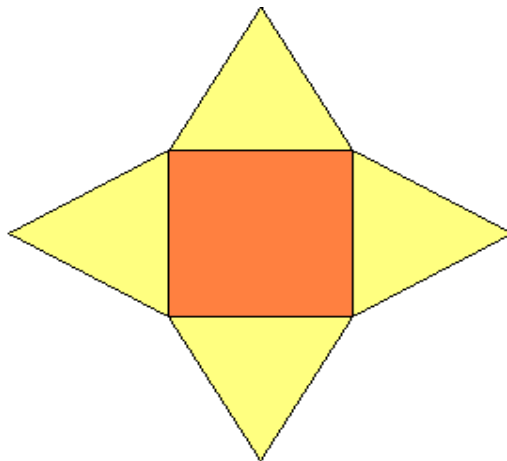
€ _____

(6 marks)

13a. Tick (✓) always true, sometimes true or never true.

	Always true	Sometimes true	Never true
A quadrilateral has 4 equal sides.		✓	
A regular hexagon has 6 equal sides.			
A pentagon has 5 equal sides.			
A heptagon has 8 sides			

b. The diagram shows the net of a solid shape.



i) This is the net of a (cube, cuboid, cone, pyramid).

ii) The solid formed by this net has edges vertices and faces.

c) Name two solids which have 0 vertices. _____ and _____

(6 marks)

14. In a theatre, **28 people** can sit in **one row**.

a) The theatre has **756 booked tickets**.

How many **rows** are booked?



_____ rows

b) Estimate, to the nearest thousand, how many **people** can sit in **98 rows**.




_____ people

c) If **each ticket** costs **€23**, how much does the theatre gain by selling **756 tickets**?

€ _____



(6 marks)

15a. Jason bought 200 g of ham and 150 g of cheese and 3 cartons of milk.
 What was the total cost of the ham cheese and milk that Jason bought?

		
<p>ham €1.82 for 100 g</p>	<p>cheese €1.64 for 100 g</p>	<p>milk 47 cent each carton</p>

€ _____

b. Jason also bought some bags of green apples and some bags of red apples.
 He spent €4.20

 <p>a bag of 6 green apples for 75c</p>	 <p>a bag of 10 red apples for 90c</p>
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i) How many bags of each type of apples did he buy?

_____ bags of green apples

_____ bags of red apples

(6 marks)

16a. Write the **missing numbers** in this multiplication grid.

✎ ×	5	<input type="text"/>	<input type="text"/>
4	20	36	32
<input type="text"/>	35	63	56
<input type="text"/>	30	54	48

b. Write in the **missing digits** in this addition sum.

$$\begin{array}{|c|c|c|} \hline 4 & \boxed{} & 4 \\ \hline \end{array} + \begin{array}{|c|c|c|} \hline 3 & 8 & \boxed{} \\ \hline \end{array} = \begin{array}{|c|c|c|} \hline 8 & 5 & 1 \\ \hline \end{array}$$

c. **Three different numbers add up to 40.**

The numbers are **all even**.

Each number is **less than 20**.

Write what the **three different numbers** could be.

$$\boxed{} + \boxed{} + \boxed{} = 40$$



(6 marks)